

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
October 2004

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Governor
State of California

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Secretary for Resources
The Resources Agency

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of October 2004.

Statewide precipitation was 10 percent of average for the 2004-2005 water year as of October 31. Statewide runoff was 55 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: <http://cdec.water.ca.gov/snow-rain.html>.

On October 31, total storage in major SWP reservoirs was about 3.41 MAF, compared with about 2.43 MAF at this time in 2003. The average storage in the major SWP reservoirs at the end of October was about 3.29 MAF. The October 31 storage at Lake Oroville was about 2.18 MAF as compared to 1.27 MAF last year. The State's share of San Luis Reservoir storage was about 598 TAF, as compared with 226 TAF at this time last year. On October 31, the combined storage in our southern reservoirs was about 626 TAF, about the same amount that was stored in the southern reservoirs at this time last year.

Through October, SWP water deliveries for 2004 were about 2.96 MAF. This is a combination of project, transfer, and exchange waters. This is 153 TAF more than delivered during the same period in 2003.

On October 8, an earthquake Alert was activated at 2045. The earthquake was verified at 2109, by earthquake engineering. The magnitude was 4.7 and located 63 miles north of Independence, Ca. No damage to the State Water Project noted after inspections.

On October 10, an earthquake Alert activated at 0707. The magnitude was 3.7 and located 40 miles east of Mariposa, Ca. No damage to the State Water Project noted after inspections.

On October 14 at 1413, flooding was reported at the Gianelli Pumping-Generating Plant. The Gianelli Plant was evacuated, except for emergency personnel. POC took jurisdiction of the plant so that the operators could assist in the recovery of plant services. Divers entered the water to place a plate on the east wall. The plate stopped the leak. All clear was reported and all personnel were allowed to re-enter. At 1645, SLACC took jurisdiction of San Luis Field Division operations. Damage assessment reported the pipe flange for the #1 sump pump was broken at the inner wall which caused the concrete to crack and break. The Gianelli Plant was available for service at 1251, October 15.

On October 23, an earthquake occurred, at 0211, magnitude 5.5, 454 miles WSW of San Rafael, CA. No damage to the State Water Project noted after inspections.

On October 25, an earthquake occurred at 1304, magnitude 3.9 located 16 miles WNW of Hollister, CA No damage to the State Water Project noted after inspections. A second quake occurred at 2057, magnitude 2.9 occurred 188 miles SW of San Luis Obispo. No damage to the State Water Project noted after inspections.

On October 28, an earthquake occurred, at 1451, magnitude 3.7, 27 miles NE of San Bernardino. No damage to the State Water Project noted after inspections.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Sep 30	4995.49	16,967									
1	4995.43	16,920	-47	20	0	0	0	4	24	0	
2	4995.38	16,881	-39	20	0	0	0	0	20	0	
3	4995.32	16,834	-47	20	0	0	0	4	24	0	
4	4995.26	16,787	-47	20	0	0	0	4	24	0	
5	4995.23	16,763	-24	20	0	0	0	0	20	8	
6	4995.14	16,693	-70	20	0	0	0	15	35	0	
7	4995.09	16,654	-39	20	0	0	0	0	20	0	
8	4995.02	16,599	-55	20	0	0	0	8	28	0	
9	4994.95	16,545	-54	20	0	0	0	7	27	0	
10	4994.91	16,514	-31	20	0	0	0	0	20	4	
11	4994.84	16,460	-54	20	0	0	0	7	27	0	
12	4994.79	16,421	-39	20	0	0	0	0	20	0	
13	4994.70	16,352	-69	20	0	0	0	15	35	0	
14	4994.65	16,313	-39	20	0	0	0	0	20	0	
15	4994.60	16,275	-38	20	0	0	0	0	20	1	
16	4994.53	16,221	-54	20	0	0	0	7	27	0	
17	4994.58	16,260	39	20	0	0	0	0	20	40	
18	4994.51	16,206	-54	20	0	0	0	7	27	0	
19	4994.58	16,260	54	20	0	0	0	8	28	55	
20	4994.58	16,260	0	20	0	0	0	0	20	20	
21	4994.52	16,214	-46	20	0	0	0	3	23	0	
22	4994.47	16,175	-39	20	0	0	0	0	20	0	
23	4994.47	16,175	0	20	0	0	0	9	29	29	
24	4994.43	16,145	-30	20	0	0	0	0	20	5	
25	4994.38	16,106	-39	20	0	0	0	0	20	0	
26	4994.39	16,114	8	20	0	0	0	8	28	32	
27	4994.34	16,076	-38	20	0	0	0	0	20	1	
28	4994.31	16,053	-23	20	0	0	0	0	20	8	
29	4994.26	16,015	-38	20	0	0	0	0	20	1	
30	4994.24	16,000	-15	20	0	0	0	3	23	15	
31	4994.20	15,969	-31	20	0	0	0	0	20	4	
Total cfs-days				---	620	0	0	109	729	226	
Total ac-ft				-998	1,230	0	0	216	1,446	448	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Sep 30	5561.76	23,056								
1	5561.74	23,037	-19	1	1	0	0	8	10	
2	5561.74	23,037	0	1	1	0	0	0	2	
3	5561.74	23,037	0	1	1	0	0	0	2	
4	5561.72	23,019	-18	1	1	0	0	7	9	
5	5561.63	22,933	-86	1	1	0	0	41	43	
6	5561.61	22,918	-15	0	5	0	0	3	8	
7	5561.61	22,918	0	0	7	0	0	0	7	
8	5561.58	22,891	-27	0	7	0	0	7	14	
9	5561.56	22,872	-19	0	7	0	0	3	10	
10	5561.53	22,845	-27	0	7	0	0	7	14	
11	5561.52	22,836	-9	0	7	0	0	0	7	
12	5561.45	22,772	-64	0	7	0	0	25	32	
13	5561.45	22,772	0	0	7	0	0	0	7	
14	5561.44	22,763	-9	1	8	0	0	0	9	
15	5561.31	22,644	-119	1	9	0	0	50	60	
16	5561.31	22,644	0	1	9	0	0	0	10	
17	5561.31	22,644	0	1	9	0	0	0	10	
18	5561.32	22,653	9	1	9	0	0	0	10	
19	5561.32	22,653	0	2	2	0	0	0	4	
20	5561.39	22,717	64	2	0	0	0	0	2	
21	5561.40	22,726	9	2	0	0	0	0	2	
22	5561.39	22,717	-9	2	0	0	0	3	5	
23	5561.48	22,799	82	2	0	0	0	0	2	
24	5561.45	22,772	-27	2	0	0	0	14	16	
25	5561.45	22,772	0	2	0	0	0	0	2	
26	5561.44	22,763	-9	2	0	0	0	3	5	
27	5561.44	22,763	0	2	0	0	0	0	2	
28	5561.47	22,790	27	2	0	0	0	0	2	
29	5561.46	22,781	-9	2	0	0	0	3	5	
30	5561.46	22,781	0	2	0	0	0	0	2	
31	5561.48	22,799	18	2	0	0	0	0	12	
Total cfs-days				---	36	105	0	0	174	
Total ac-ft				-257	71	208	0	0	345	
									624	
									367	

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Sep 30	5762.74	42,809									
1	5762.71	42,726	-83	10	0	3	0	29	42	0	
2	5762.70	42,699	-27	10	0	3	0	1	14	0	
3	5762.70	42,699	0	10	0	3	0	0	13	14	
4	5762.68	42,644	-55	10	0	3	0	15	28	0	
5	5762.66	42,589	-55	10	0	0	0	18	28	0	
6	5762.64	42,534	-55	10	0	0	0	18	28	0	
7	5762.62	42,480	-54	10	0	0	0	17	27	0	
8	5762.57	42,343	-137	10	0	0	0	65	75	6	
9	5762.57	42,343	0	10	0	0	0	0	10	10	
10	5762.56	42,316	-27	10	0	0	0	4	14	0	
11	5762.52	42,207	-109	10	0	0	0	45	55	0	
12	5762.50	42,152	-55	9	0	0	0	19	28	0	
13	5762.48	42,098	-54	7	0	1	0	19	27	0	
14	5762.47	42,071	-27	5	0	0	0	9	14	0	
15	5762.46	42,043	-28	8	0	0	0	6	14	0	
16	5762.43	41,962	-81	9	0	0	0	32	41	0	
17	5762.53	42,234	272	9	0	0	0	0	9	147	
18	5762.52	42,207	-27	10	0	0	0	4	14	0	
19	5762.59	42,398	191	10	0	0	0	0	10	107	
20	5762.64	42,534	136	10	0	0	0	0	10	79	
21	5762.63	42,507	-27	10	0	0	0	4	14	0	
22	5762.62	42,507	0	10	0	0	0	0	10	10	
23	5762.61	42,452	-55	10	0	0	0	18	28	0	
24	5762.61	42,452	0	10	0	0	0	0	10	10	
25	5762.58	42,370	-82	10	0	1	0	30	41	0	
26	5762.65	42,562	192	10	0	0	0	0	10	108	
27	5762.65	42,562	0	10	0	0	0	0	10	10	
28	5762.65	42,562	0	10	0	0	0	0	10	10	
29	5762.63	42,507	-55	10	0	0	0	18	28	0	
30	5762.61	42,452	-55	10	0	0	0	18	28	0	
31	5762.60	42,425	-27	10	0	0	0	4	14	0	
Total cfs-days			---	297	0	14	0	393	704	511	
Total ac-ft			-384	589	0	28	0	780	1,397	1,013	

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Sep 30	757.96	1,752,980								
1	757.75	1,750,960	-2,020	5,295	28	110	0	5,433	0	3,413
2	757.83	1,751,730	770	1,514	28	117	0	1,659	0	2,429
3	757.66	1,750,095	-1,635	4,503	28	186	0	4,717	0	3,082
4	757.49	1,748,461	-1,634	5,564	28	158	0	5,750	0	4,116
5	757.00	1,743,759	-4,702	7,244	28	165	0	7,437	0	2,735
6	756.71	1,740,980	-2,779	6,565	28	178	0	6,771	0	3,992
7	756.16	1,735,718	-5,262	8,032	28	172	0	8,232	0	2,970
8	755.88	1,733,043	-2,675	4,756	28	164	0	4,948	0	2,273
9	755.89	1,733,139	96	3,256	28	164	0	3,448	0	3,544
10	755.81	1,732,375	-764	5,733	28	178	0	5,939	0	5,175
11	755.06	1,725,228	-7,147	8,472	28	287	0	8,787	0	1,640
12	754.68	1,721,615	-3,613	7,408	28	367	0	7,803	0	4,190
13	754.04	1,715,542	-6,073	8,753	28	272	0	9,053	0	2,980
14	753.59	1,711,280	-4,262	7,490	28	271	0	7,789	0	3,527
15	752.43	1,700,331	-10,949	12,965	28	142	0	13,135	0	2,186
16	752.39	1,699,954	-377	4,370	28	148	0	4,546	0	4,169
17	752.43	1,700,331	377	3,824	28	87	0	3,939	0	4,316
18	751.73	1,693,747	-6,584	9,608	20	20	0	9,648	0	3,064
19	751.34	1,690,087	-3,660	9,871	8	54	0	9,933	0	6,273
20	751.13	1,688,118	-1,969	10,021	6	20	0	10,047	0	8,078
21	749.97	1,677,274	-10,844	13,451	4	27	0	13,482	0	2,638
22	749.41	1,672,057	-5,217	8,975	4	53	0	9,032	0	3,815
23	749.43	1,672,243	186	6,125	4	40	0	6,169	0	6,355
24	749.69	1,674,664	2,421	3,461	4	13	0	3,478	0	5,899
25	749.09	1,669,080	-5,584	8,744	4	33	0	8,781	0	3,197
26	749.42	1,672,150	3,070	6,318	4	87	0	6,409	0	9,479
27	749.06	1,668,801	-3,349	7,870	4	33	0	7,907	0	4,558
28	748.75	1,665,922	-2,879	9,285	4	33	0	9,322	0	6,443
29	748.55	1,664,066	-1,856	8,963	4	27	0	8,994	0	7,138
30	748.59	1,664,437	371	2,503	4	73	0	2,580	0	2,951
31	748.72	1,665,644	1,207	4,446	4	100	0	4,550	0	5,757
Total		-87,336	215,385	554	3,779	0	219,718	0	132,382	

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

October 2004

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County 4/	Thermalito Irrigation District	Releases To River 5/	Hyatt Powerplant Pumpback	
Sep 30	23,866										
	1	23,995	129	5,295	103	0	3,817	8	6	1,263	0
	2	23,635	-360	1,514	506	0	946	8	6	1,263	0
	3	24,664	1,029	4,503	506	0	2,575	8	6	1,261	0
	4	24,294	-370	5,564	506	0	4,976	8	6	1,257	0
	5	24,054	-240	7,244	506	0	6,526	8	6	1,257	0
	6	23,962	-92	6,565	506	0	5,828	8	6	1,265	0
	7	23,696	-266	8,032	508	0	7,324	8	6	1,257	0
	8	24,040	344	4,756	508	0	3,640	8	6	1,257	0
	9	22,209	-1,831	3,256	506	0	4,152	8	6	1,261	0
	10	23,164	955	5,733	508	0	3,874	8	6	1,245	0
	11	23,577	413	8,472	506	0	7,379	8	6	1,259	0
	12	23,697	120	7,408	506	0	7,262	8	6	1,263	0
	13	23,871	174	8,753	359	0	7,512	8	6	1,273	0
	14	23,621	-250	7,490	22	0	6,318	8	6	1,259	0
	15	23,886	265	12,965	0	0	11,268	8	6	1,259	0
	16	23,475	-411	4,370	22	0	3,508	8	6	1,259	0
	17	23,035	-440	3,824	0	0	3,020	8	6	1,267	0
	18	22,923	-112	9,608	0	0	8,266	8	6	1,261	0
	19	22,991	68	9,871	0	0	8,850	8	6	1,261	0
	20	23,327	336	10,021	56	0	8,230	8	6	1,265	0
	21	24,356	1,029	13,451	212	0	11,549	8	7	1,247	0
	22	24,167	-189	8,975	508	0	8,386	8	7	1,255	0
	23	24,378	211	6,125	514	0	5,014	8	7	1,257	0
	24	24,198	-180	3,461	510	0	2,828	8	7	1,255	0
	25	24,015	-183	8,744	512	0	7,896	8	7	1,253	0
	26	23,945	-70	6,318	512	0	5,768	8	7	1,255	0
	27	24,095	150	7,870	512	0	7,016	8	7	1,251	0
	28	23,868	-227	9,285	512	0	8,872	8	7	1,249	0
	29	23,890	22	8,963	446	0	8,002	8	7	1,265	0
	30	24,493	603	2,503	514	0	1,108	8	7	1,257	0
	31	24,449	-44	4,446	549	0	3,505	8	7	1,261	0
Total		583	215,385	11,435	0	185,215	248	197	39,017	0	-1,560

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ Includes 2 AF of entitlement water to Del Oro WD and 246 AF to Cal Water.

5/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Sep 30	131.21	36,291											
1	130.64	34,312	-1,979	3,817	1,054	0	408	543	3,751	0	-40	5,014	
2	129.13	29,321	-4,991	946	1,118	0	431	587	3,751	0	-50	5,014	
3	128.03	25,921	-3,400	2,575	1,096	0	433	601	3,751	0	-94	5,012	
4	127.68	24,880	-1,041	4,976	1,140	0	479	639	3,751	0	-8	5,008	
5	127.78	25,176	296	6,526	1,209	0	488	676	3,751	0	-106	5,008	
6	127.69	24,910	-266	5,828	1,241	0	436	722	3,751	0	56	5,016	
7	128.02	25,891	981	7,324	1,273	0	498	823	3,751	0	2	5,008	
8	127.00	22,918	-2,973	3,640	1,325	0	577	867	3,751	0	-93	5,008	
9	126.03	20,252	-2,666	4,152	1,410	0	629	867	3,751	0	-161	5,012	
10	124.94	17,431	-2,821	3,874	1,430	0	575	867	3,751	0	-72	4,996	
11	125.15	17,959	528	7,379	1,396	0	524	908	3,750	0	-273	5,009	
12	125.42	18,649	690	7,262	1,363	0	504	954	3,749	0	-2	5,012	
13	125.69	19,351	702	7,512	1,438	0	536	1,043	3,749	0	-44	5,022	
14	125.55	18,986	-365	6,318	1,500	0	528	1,133	3,749	0	227	5,008	
15	127.17	23,401	4,415	11,268	1,496	0	543	1,238	3,650	0	74	4,909	
16	125.94	20,012	-3,389	3,508	1,472	0	516	1,283	3,650	0	24	4,909	
17	124.64	16,689	-3,323	3,020	1,402	0	504	1,297	3,650	0	510	4,917	
18	125.00	17,581	892	8,266	1,386	0	486	1,400	3,650	0	-452	4,911	
19	125.70	19,378	1,797	8,850	1,369	0	411	1,527	3,669	0	-77	4,930	
20	126.32	21,033	1,655	8,230	1,335	0	351	1,562	3,550	0	223	4,815	
21	128.06	26,011	4,978	11,549	1,353	0	321	1,581	3,134	0	-182	4,381	
22	128.72	28,031	2,020	8,386	1,440	0	282	1,563	2,856	0	-225	4,111	
23	128.45	27,196	-835	5,014	1,476	0	226	1,523	2,856	0	232	4,113	
24	127.35	23,918	-3,278	2,828	1,472	0	214	1,521	2,856	0	-43	4,111	
25	128.09	26,101	2,183	7,896	1,476	0	216	1,552	2,856	0	387	4,109	
26	127.94	25,651	-450	5,768	1,474	0	216	1,553	2,856	0	-119	4,111	
27	128.27	26,646	995	7,016	1,353	0	192	1,480	2,836	0	-160	4,087	
28	129.29	29,833	3,187	8,872	1,188	0	143	1,285	2,856	0	-213	4,105	
29	130.12	32,551	2,718	8,002	1,297	0	129	1,113	2,856	0	111	4,121	
30	128.77	28,187	-4,364	1,108	1,311	0	125	996	2,856	0	-184	4,113	
31	128.06	26,011	-2,176	3,505	1,317	0	129	966	2,856	0	-413	4,117	
Total		-10,280		185,215	41,610	0	12,050	34,670	106,000	0	-1,165	145,017	

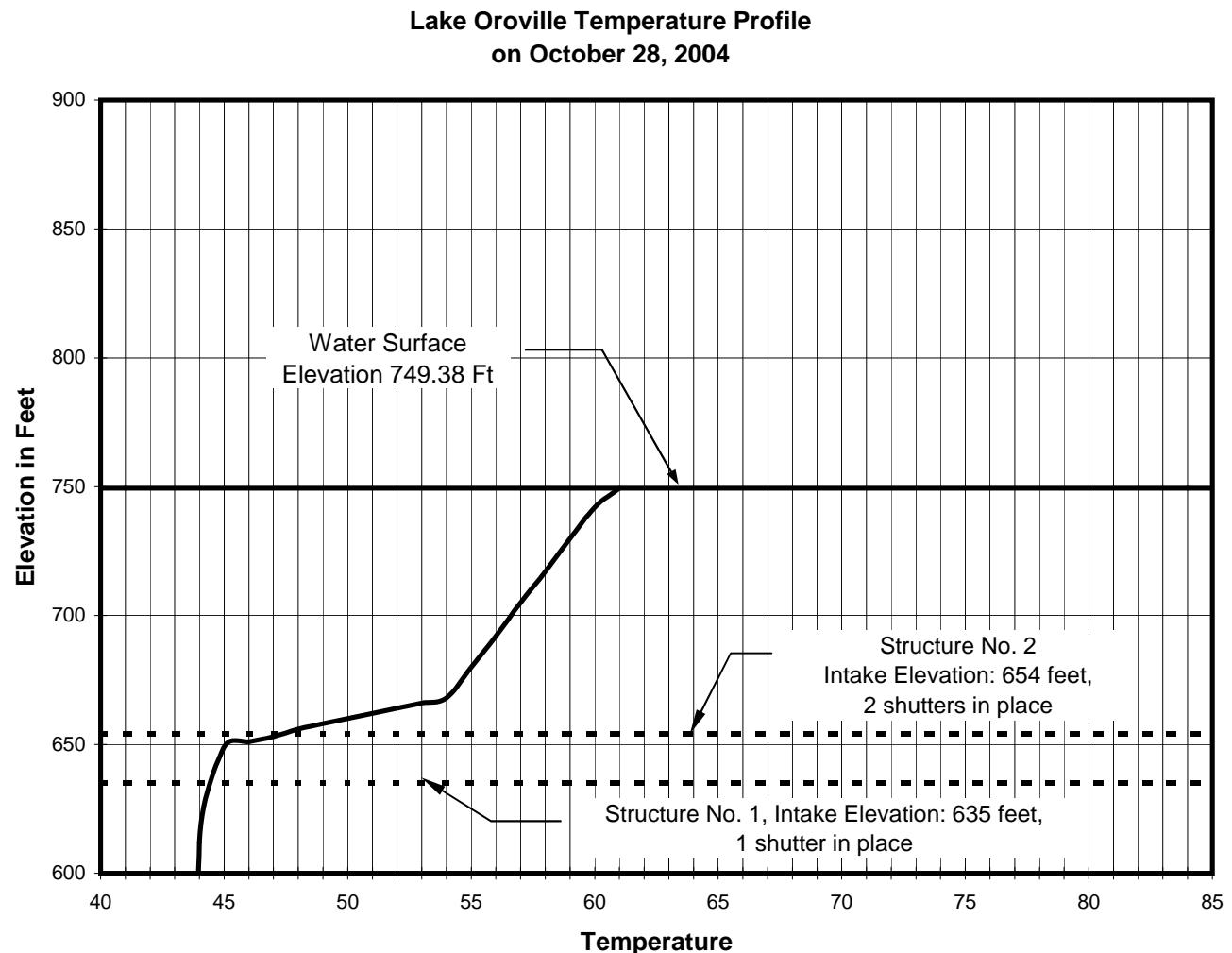
1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

Water Temperature Data
(in degrees Fahrenheit)
October 2004

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	61	52
2	62	51
3	63	51
4	63	51
5	63	52
6	63	52
7	63	52
8	62	51
9	61	51
10	59	51
11	58	50
12	58	50
13	58	51
14	57	51
15	56	51
16	56	52
17	56	52
18	55	51
19	54	49
20	53	50
21	53	50
22	53	50
23	52	51
24	53	51
25	53	50
26	53	50
27	53	51
28	52	51
29	53	52
30	53	52
31	53	52



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending					Table A Amount		Other		
	No.	Structure	Mile			M & I	Benicia			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,646	100		1/ 99 2/ 319 3/ 1,692		
		Travis Surge Tank	8.78							
			8.80	Solano County Water Agency Travis Turnout	199					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	319					
				Solano County Water Agency Fairfield / Vacaville 42"	1,692					
			17.00	Solano County Water Agency Central Solano	Stub					
2		Cordelia Forebay	21.23			4/ 663		1/ 1,000 5/ 1,061		
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,249					
3A	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,663	212	304	1/ 1,000 5/ 1,061		
				Solano County Water Agency Benicia	1,061					
		Cordelia Surge Tank	23.33							
		Creston Surge Tank Connection	25.65							
			26.95	Napa County Flood Control & WCD American Canyon 2	212					
			27.27	Napa County Flood Control & WCD American Canyon 3	0					
		Napa Terminal Tank	27.58	City of Napa	304					
			27.60	Napa County Flood Control & WCD American Canyon 1	9					

1/ Permit water.

2/ Includes 173 AF of Settlement water under "Balanced" conditions and 146 AF of Settlement Water under "Excess" conditions.

3/ Includes 1,557 AF of Settlement water under "Balanced" conditions and 135 AF of Settlement Water under "Excess" conditions.

4/ Includes 5 AF of Napa Co. FC&WCD Table A water through Solano Co.'s turnout in Reach 3A for delivery to American Canyon.

5/ Includes 891 AF of Settlement water under "Balanced" conditions and 170 AF of Settlement Water under "Excess" conditions.

Table 9. Delta Field Division Plant Data

(in acre-feet)

October 2004

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		Gravity Flow Through Plant Into Aqueduct
			Total	SWP		Into Lake	Into Aqueduct	
1	218	120	4,913	4,913	233	0	0	212
2	209	108	3,867	3,867	233	0	0	210
3	195	103	2,771	2,771	225	0	0	208
4	110	116	2,914	2,914	242	0	0	207
5	195	104	2,916	2,916	233	0	0	206
6	215	120	4,871	4,871	236	0	0	205
7	199	107	4,745	4,203	301	0	0	160
8	201	102	3,217	2,675	359	0	0	51
9	212	112	2,167	1,625	439	0	0	6
10	218	122	3,330	2,788	467	0	0	0
11	225	129	2,875	2,333	462	0	0	0
12	229	132	2,961	2,318	467	0	0	0
13	233	130	2,619	1,976	467	0	0	0
14	232	130	2,570	1,927	479	0	0	0
15	248	140	2,611	897	496	0	0	0
16	235	137	2,382	624	469	0	0	0
17	219	133	4,307	2,549	432	0	0	0
18	220	127	3,122	1,364	405	0	0	34
19	168	94	3,911	2,153	292	0	0	103
20	144	86	3,843	2,085	172	0	0	189
21	138	80	6,831	5,073	122	0	0	200
22	129	73	7,732	5,153	96	0	0	202
23	127	74	7,788	5,219	117	0	0	200
24	136	86	8,760	6,175	103	0	0	167
25	147	94	8,793	6,213	120	0	0	180
26	139	86	9,726	7,146	151	0	0	194
27	133	81	10,323	9,747	117	0	0	194
28	153	92	10,846	10,846	67	0	0	157
29	148	87	11,737	11,737	75	0	0	73
30	136	74	9,579	9,579	66	0	0	79
31	135	70	10,976	10,976	90	0	0	74
Total	5,646	3,249	170,003	139,633	8,233	0	0	3,511

Table 10. Clifton Court Forebay

Daily Operation of Gates

October 2004

Date	Time										Amount of inflow in Acre-
	Opened	Closed									
1	0:01	2:45	5:45	11:20							4,954
2	0:01	3:30	6:30	10:15							3,957
3	0:01	4:15									2,968
4	0:01	5:00	8:00	10:30							3,000
5	0:01	6:00	9:00	10:25							2,956
6	0:01	7:00	10:00	15:40							4,956
7	1:15	8:15	11:15	16:30							4,900
8	0:01	1:00	2:30	9:00	12:15	17:00					3,754
9	0:01	2:00	3:30	5:50							2,704
10	0:01	0:30	4:35	8:15							2,965
11	0:00	3:15	5:30	11:15	14:15	17:10					2,959
12	0:15	3:45	6:30	12:15	19:05	21:20					2,961
13	3:15	8:30	19:15	20:58							2,963
14	0:01	1:00	4:00	10:15							2,960
15	0:01	1:45	4:45	10:20							2,960
16	0:01	2:30	5:30	8:55							2,968
17	0:01	3:00	6:00	11:25							2,955
18	1:00	4:00	7:00	9:55							2,955
19	3:30	5:00	8:00	13:00							3,954
20	1:50	6:15	9:15	12:20							3,951
21	0:30	7:30	8:30	15:50							6,939
22	2:00	8:30	11:30	17:25							7,925
23	0:01	1:00	3:15	7:15	12:50	18:50					8,886
24	0:01	2:15	4:30	8:08	13:19	18:15					8,914
25	1:12	3:00	5:30	10:10	14:35	19:25					8,922
26	2:45	10:15	14:00	15:45	18:45	21:02					9,914
27	0:01	0:30	3:30	11:00	14:35	16:15	19:45	---			9,900
28	---	1:00	4:00	12:20	15:00	17:00	19:45	---			10,890
29	---	1:45	4:45	17:30	20:00	---					11,888
30	---	1:30	5:30	14:08	15:00	18:00	20:30	---			11,437
31	---	0:35	6:00	17:30	20:20	23:30					10,917
Total inflow for the month in AF:											175,232

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

October 2004

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Local	Loan Water	Advanced Table A Water		
	No.	Structure	Mile									
1	Banks Pumping Plant	3.32			170,003	10	74	0	0	0		
	South Bay Pumping Plant	4.49	Bethany Reservoir Inlet		8,233							
	Check No. 1	5.95										
		8.08	Alameda Co. Zone 7 WA Mountain House Golf Course		10							
	Check No. 2	12.01										
		12.47	Musco Olive		74							
	Check No. 3	18.29										
		22.16	Tracy Golf & Country Club		0							
	Check No. 4	23.99										
	Check No. 5	29.73										
	Check No. 6	34.24										
2A		35.22	Turlock Fruit Company Inflow		0	56	3	21	64	88		
	Check No. 7	39.91										
		42.46	Oak Flat Water District-A		3							
		42.9	Western Hills WD		56							
		43.81	Oak Flat Water District-B		21							
		44.64	Oak Flat Water District-C		0							
	Check No. 8	45.97										
		46.18	Oak Flat Water District-D		64							
			Oak Flat Totals:		88							
	Check No. 9	51.3										
2B	Check No. 10	56.86										
	Check No. 11	61.4										
		66.14	Veteran's Cemetery		6							
	Check No. 12	66.71			163,219							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Purchase Pool A	Transfer 1/	Local	Recreation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	8,233	2						
			3.17		0							
			3.18		2							
	Check No. 1	3.91										
	2	Check No. 2	5.21									
2	3		7.21	Zone 7 Altamont	2	2	572					
		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	0							
				Zone 7 Patterson Project Water	572							
4	4	Check No. 4	10.68			94	296					
	5	Check No. 5	12.29									
	6		13.55	Zone 7 Wente #1	94							
			14.16	Zone 7 Wente #2	3							
			14.31	Ising Project Water	3							
		Check No. 6	14.65									
	7		14.78	Zone 7 Arroyo Mocho Project Water	296							
		Check No. 7	16.38									
	8		16.57	Zone 7 Wente #3	0	350	1,912			15		
			16.63	Zone 7 Wente #4	20							
			16.70	Zone 7 Concannon Project Water	9							
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0							
				(Flow into South Bay Aqueduct)	3,511							
				Arroyo Valle #1 & #2 Project Water	350							
				Arroyo Valle #1 & #2 Inflow Exchange	0							
				Lake Del Valle Recreation	15							
				Zone 7 Wente #5	31							
			19.20	So. Livermore Project	1,912							
6				So. Livermore Inflow Released	0							
				So. Livermore Stored Exchanged	0							
			19.21	Zone 7 - Kalthrof Detjens	48							
7	La Costa Tunnel		22.50	ACWD Vallecitos Project Water	579	579	1,856					
			25.97	City of San Francisco San Antonio	0							
8	Mission Tunnel	28.97		ACWD - Bayside 1 & 2 Project Water:	1,856	1,856	2,847					
				Inflow Released	0							
9	Santa Clara Pipeline	35.86		Inflow Exchange:	0							
				S.C.V.W.D. Meter	5,947							

1/ Conveyance of Brown's Valley ID water transferred to SCVWD.

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

October 2004

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Sep 30	687.27	29,764									
1	686.89	29,544	-220	-1	0	0	212	0	7	219	0.00
2	686.52	29,331	-213	3	0	0	210	0	6	216	0.00
3	686.16	29,125	-206	8	0	0	208	0	6	214	0.00
4	685.80	28,920	-205	10	0	0	207	0	8	215	0.00
5	685.41	28,699	-221	-9	0	0	206	0	6	212	0.00
6	685.05	28,497	-202	9	0	0	205	0	6	211	0.00
7	684.77	28,340	-157	9	0	0	160	0	6	166	0.00
8	684.69	28,295	-45	14	0	0	51	0	8	59	0.00
9	684.68	28,290	-5	7	0	0	6	0	6	12	0.00
10	684.67	28,284	-6	2	0	0	0	0	8	8	0.00
11	684.66	28,279	-5	5	0	0	0	0	10	10	0.00
12	684.64	28,268	-11	1	0	0	0	0	12	12	0.00
13	684.64	28,268	0	10	0	0	0	0	10	10	0.00
14	684.63	28,262	-6	4	0	0	0	0	10	10	0.00
15	684.61	28,251	-11	-1	0	0	0	0	10	10	0.00
16	684.61	28,251	0	6	0	0	0	0	6	6	0.00
17	684.63	28,262	11	17	0	0	0	1	5	6	0.05
18	684.57	28,229	-33	4	0	0	34	1	2	37	0.30
19	684.50	28,190	-39	69	0	0	103	1	4	108	0.40
20	684.17	28,007	-183	14	0	0	189	1	7	197	0.92
21	683.81	27,808	-199	4	0	0	200	1	2	203	0.00
22	683.41	27,589	-219	-10	0	0	202	1	6	209	0.00
23	683.05	27,393	-196	9	0	0	200	1	4	205	0.00
24	682.78	27,247	-146	25	0	0	167	1	3	171	0.32
25	682.44	27,064	-183	1	0	0	180	1	3	184	0.03
26	682.12	26,893	-171	42	0	0	194	1	18	213	0.62
27	681.75	26,696	-197	3	0	0	194	1	5	200	0.01
28	681.45	26,538	-158	0	0	0	157	1	0	158	0.00
29	681.33	26,474	-64	12	0	0	73	1	2	76	0.00
30	681.20	26,406	-68	16	0	0	79	1	4	84	0.00
31	681.07	26,338	-68	11	0	0	74	1	4	79	0.00
Total				-3,426	292	0	0	3,511	15	192	3,718
											2.65

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

October 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Sep 30	220.74	45,080											
1	220.78	45,184	104	0	1,768	1,503	2,337	0	1,527	4,193	17	181	
2	222.86	50,673	5,489	0	1,768	3,253	1,612	0	0	3,910	17	61	
3	219.92	42,945	-7,728	0	1,854	0	1,541	0	2,970	4,483	17	179	
4	219.68	42,325	-620	0	1,859	0	1,302	0	706	2,945	17	194	
5	219.47	41,785	-540	0	1,715	0	1,365	0	0	3,474	17	139	
6	220.80	45,237	3,452	0	1,503	2,480	2,201	0	550	3,930	19	55	
7	220.82	45,289	52	0	1,491	0	2,206	0	550	3,270	9	158	
8	222.92	50,833	5,544	0	1,464	3,365	2,129	0	642	3,641	9	129	
9	220.72	45,027	-5,806	0	1,506	0	1,176	0	1,297	4,420	9	117	
10	220.32	43,983	-1,044	0	1,588	4,470	1,606	0	3,361	4,801	9	-19	
11	221.94	48,229	4,246	0	1,681	2,230	1,011	0	0	2,860	9	88	
12	221.99	48,360	131	0	1,597	0	1,297	0	141	2,653	9	-25	
13	221.17	46,206	-2,154	0	1,708	737	1,231	0	1,338	3,797	10	383	
14	220.74	45,080	-1,126	0	1,760	0	1,046	0	0	3,346	2	-26	
15	221.31	46,574	1,494	0	1,886	2,707	1,206	0	1,520	3,235	2	-289	
16	221.81	47,887	1,313	0	1,918	3,235	714	0	1,031	4,215	2	43	
17	217.81	37,602	-10,285	0	2,148	0	1,845	0	4,587	4,588	2	-1	
18	220.81	45,263	7,661	0	2,524	2,996	1,477	0	384	2,709	2	-40	
19	223.04	51,153	5,890	0	2,843	2,039	2,023	0	1,723	2,290	2	80	
20	222.53	49,793	-1,360	0	3,100	0	1,858	0	4,148	1,484	3	-9	
21	220.88	45,446	-4,347	0	3,024	0	3,346	0	6,104	1,769	2	-687	
22	220.49	44,427	-1,019	0	2,980	0	3,575	0	4,790	2,180	2	-97	
23	220.77	45,158	731	0	2,956	0	3,899	0	3,961	2,401	2	-122	
24	218.21	38,595	-6,563	0	3,069	0	4,893	0	8,547	2,432	2	-290	
25	219.59	42,093	3,498	0	3,107	0	3,948	0	2,707	2,328	2	-254	
26	221.42	46,863	4,770	0	3,171	0	4,650	0	3,346	2,042	2	-26	
3/ 27	221.03	45,839	-1,024	0	3,461	0	5,235	0	7,807	1,121	3	-281	
28	221.29	46,521	682	0	3,663	0	5,382	0	6,730	1,798	9	-164	
29	222.65	50,113	3,592	0	3,615	0	5,875	0	5,806	1,801	9	-63	
30	222.34	49,288	-825	0	3,594	0	4,711	0	6,841	1,627	9	-244	
31	218.95	40,457	-8,831	0	3,788	0	5,590	0	10,826	2,864	9	-131	
Total				-4,623	0	74,109	29,015	82,287	0	93,940	92,607	234	-961
Mean cfs				---	0	2,391	936	2,654	0	3,030	2,987	8	-31
Acre-feet				-4,623	0	146,992	57,551	163,219	0	186,327	183,686	465	-1,907

1/ Pump-in located at Mile 79.67R.

2/ Includes 74 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks and Recreation, 0AF to Parks & Recreation Cattle, and 391 AF to San Luis Water District.

3/ 25 hr.; the factor for converting CFS/AF is 2.0661 on 10/27/02.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

October 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Sep 30	417.68	670,373						
1	417.71	670,634	261	1,527	1,503	171	0	279
2	416.94	663,929	-6,705	0	3,253	168	0	41
3	417.47	668,542	4,613	2,970	0	155	0	-489
4	417.61	669,762	1,220	706	0	168	0	77
5	417.58	669,501	-261	0	0	167	0	35
6	417.09	665,233	-4,268	550	2,480	163	0	-59
7	417.13	665,581	348	550	0	160	0	-215
8	416.50	660,108	-5,473	642	3,365	153	0	117
9	416.73	662,104	1,996	1,297	0	159	0	-132
10	416.45	659,674	-2,430	3,361	4,470	152	0	36
11	415.90	654,911	-4,763	0	2,230	168	0	-3
12	415.96	655,430	519	141	0	178	0	299
13	415.97	655,517	87	1,338	737	185	0	-372
14	415.94	655,257	-260	0	0	184	0	53
15	415.51	651,542	-3,715	1,520	2,707	173	0	-513
16	414.87	646,026	-5,516	1,031	3,235	156	0	-421
17	415.96	655,430	9,404	4,587	0	131	0	285
18	415.32	649,902	-5,528	384	2,996	85	0	-90
19	415.31	649,816	-86	1,723	2,039	55	0	328
20	416.69	661,757	11,941	4,148	0	79	0	1,951
21	417.49	668,716	6,959	6,104	0	84	0	-2,512
22	418.39	676,578	7,862	4,790	0	114	0	-712
23	419.59	687,113	10,535	3,961	0	112	0	1,462
24	421.38	702,942	15,829	8,547	0	103	0	-464
25	421.95	708,011	5,069	2,707	0	72	0	-79
26	422.68	714,522	6,511	3,346	0	0	0	-63
2/ 27	424.14	727,611	13,089	7,807	0	73	0	-1,135
28	425.88	743,327	15,716	6,730	0	57	0	1,250
29	427.10	754,391	11,064	5,806	0	150	0	-78
30	427.50	758,033	3,642	6,841	0	180	0	-4,825
31	430.75	787,850	29,817	10,826	0	250	1	4,458
Total			117,477	93,940	29,015	4,205	1	-1,491
Mean cfs			---	3,030	936	136	1	-48
Acre-feet			117,477	186,327	57,551	8,347	1	-2,951

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 7,315 AF, San Benito: 1,032 AF.

2/ 25 hr.; the factor for converting CFS/AF is 2.0661 on 10/27/02.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

October 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	8,316	6,752	2,982	2,982	3,028	1,600	340
2	7,756	6,121	6,453	6,453	0	0	333
3	8,892	7,309	0	0	5,891	-130	308
4	5,842	4,283	0	0	1,400	-32	334
5	6,891	5,347	0	0	0	0	331
6	7,795	6,215	4,919	4,919	1,091	-6	324
7	6,487	4,293	0	0	1,091	-24	318
8	7,221	5,020	6,674	6,674	1,273	-14	303
9	8,767	6,586	0	0	2,572	1,258	315
10	9,522	7,430	8,866	8,866	6,667	3,128	301
11	5,673	3,532	4,423	4,423	0	0	334
12	5,262	2,919	0	0	279	279	354
13	7,531	5,216	1,462	1,462	2,654	-59	367
14	6,637	4,360	0	0	0	0	365
15	6,416	3,646	5,369	5,369	3,014	-75	344
16	8,361	5,703	6,417	6,417	2,045	-83	310
17	9,101	6,456	0	0	9,098	-136	259
18	5,374	2,743	5,942	5,942	762	-40	169
19	4,542	1,828	4,044	4,044	3,417	-82	110
20	2,943	237	0	0	8,227	4,666	157
21	3,508	849	0	0	12,108	7,148	167
22	4,325	1,138	0	0	9,500	4,394	226
23	4,763	1,572	0	0	7,857	2,699	222
24	4,823	3,735	0	0	16,953	3,715	205
25	4,617	3,091	0	0	5,369	1,534	142
26	4,050	2,521	0	0	6,636	1,883	0
27	2,224	1,682	0	0	15,485	8,586	145
28	3,566	3,566	0	0	13,349	5,225	114
29	3,573	3,573	0	0	11,517	6,442	297
30	3,227	3,227	0	0	13,570	8,487	357
31	5,681	5,681	0	0	21,474	7,452	496
Total	183,686	126,631	57,551	57,551	186,327	67,815	8,347

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
October 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Sep 30	323.64	18,673					
1	323.63	18,668	-5	0	0	0	-5
2	323.63	18,668	0	0	0	0	0
3	323.62	18,664	-4	0	0	0	-4
4	323.60	18,655	-9	0	0	0	-9
5	323.59	18,650	-5	0	0	0	-5
6	323.58	18,646	-4	0	0	0	-4
7	323.57	18,642	-4	0	0	0	-4
8	323.55	18,633	-9	0	0	0	-9
9	323.53	18,624	-9	0	0	0	-9
10	323.50	18,610	-14	0	0	0	-14
11	323.48	18,601	-9	0	0	0	-9
12	323.48	18,601	0	0	0	0	0
13	323.47	18,597	-4	0	0	0	-4
14	323.46	18,593	-4	0	0	0	-4
15	323.44	18,584	-9	0	0	0	-9
16	323.42	18,575	-9	0	0	0	-9
17	323.42	18,575	0	0	0	0	0
18	323.43	18,579	4	2	0	0	0
19	323.48	18,601	22	11	0	0	0
20	323.48	18,601	0	0	0	0	0
21	323.47	18,597	-4	0	0	0	-4
22	323.46	18,593	-4	0	0	0	-4
23	323.46	18,593	0	0	0	0	0
24	323.45	18,588	-5	0	0	0	-5
25	323.45	18,588	0	0	0	0	0
26	323.46	18,593	5	3	0	0	-1
27	323.46	18,593	0	0	0	0	0
28	323.45	18,588	-5	0	0	0	-5
29	323.44	18,584	-4	0	0	0	-4
30	323.44	18,584	0	0	0	0	0
31	323.41	18,570	-14	0	0	0	-14
Total			-103	16	0	0	-135
Mean cfs			---	1	0	0	---
Acre-feet			-103	32	0	0	-135

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

October 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Sep 30	599.10	639			0	0	
1	599.10	639	0	0	0	0	0
2	599.10	639	0	0	0	0	0
3	599.10	639	0	0	0	0	0
4	599.10	639	0	0	0	0	0
5	599.10	639	0	0	0	0	0
6	599.10	639	0	0	0	0	0
7	599.10	639	0	0	0	0	0
8	599.10	639	0	0	0	0	0
9	599.10	639	0	0	0	0	0
10	599.10	639	0	0	0	0	0
11	599.05	637	-2	0	0	0	-2
12	599.10	639	2	0	0	0	2
13	599.10	639	0	0	0	0	0
14	599.10	639	0	0	0	0	0
15	599.10	639	0	0	0	0	0
16	599.05	637	-2	0	0	0	-2
17	599.05	637	0	0	0	0	0
18	599.10	639	2	0	0	0	2
19	599.10	639	0	0	0	0	0
20	599.10	639	0	0	0	0	0
21	599.10	639	0	0	0	0	0
22	599.35	651	12	0	0	0	12
23	599.40	654	3	0	0	0	3
24	599.40	654	0	0	0	0	0
25	599.40	654	0	0	0	0	0
26	599.45	656	2	0	0	0	2
27	599.50	659	3	0	0	0	3
28	599.50	659	0	0	0	0	0
29	599.50	659	0	0	0	0	0
30	599.50	659	0	0	0	0	0
31	599.50	659	0	0	0	0	0
Total			20	0	0	0	20
Mean cfs			---	0	0	0	---
Acre-feet			20	0	0	0	20

Table 19a. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					USBR	CVC	Transfer	DWR Rec.	USBR Rec.		
	No.	Structure	Mile									
2B	12	Check No. 12	66.71		163,219							
3A		San Luis Reservoir		Department of Parks and Recreation	1	7,315			1	0		
				San Felipe Division Santa Clara Water District	7,315							
				San Felipe Division San Benito Water District	1,032	1,032						
				Department of Parks and Recreation	0				0	0		
3	13	O'Neill Forebay	70.85	Cattle Program	0				0	0		
				Department of Fish & Game	74				41	33		
				San Luis Water District	391	391			0	0		
			70.91 Thru 85.08	(Floodwater Inflow)	0							
				Reach 3 Subtotal:	465	391			0	41		
		Dos Amigos Pumping Plant	86.73		183,686							
		14	89.03	San Luis Water District	2,335	2,335						
			Thru 94.06									
			89.66	Pacheco Water District	379		379					
			Thru 89.67									
			89.68	Panoche Water District	32							
4	15	14	89.70	City of Dos Palos	113	113						
			Check No. 14	95.06								
			98.15	San Luis Water District	112		112					
			Thru 104.20									
			96.15	Panoche Water District	424		424					
			Thru 102.64	(Floodwater Inflow)	0							
			102.64	Broadview Water District	3							
			105.22	Westlands Water District	3,636							
			Thru 108.64			1/ 3,636						
			Check No.15	108.50								
			San Felipe Division Total:	8,347	8,347		0	0	0	0		
			Pacheco Water District Total:	379	379							
			Broadview Water District Total:	3	3	0	0	0	0	0		
			City of Dos Palos Total:	113	113							
			SLWD Reach 4 Subtotal:	2,838	2,838	0	0	0	0	0		
			Panoche Water District Total:	456	456							
			SLWD Total:	2,838	2,838	0	0	0	0	0		
			Westlands WD Reach 4 Subtotal:	3,636	0							

1/ 383 AF from county of Fresno and 3,253 AF from Lower Tule WD.

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries									
	Beginning and Ending					USBR	CVC	Transfer	DWR Rec.	USBR Rec.					
	No.	Structure	Mile												
5	16		110.52	(Reverse flow, Kings River)	0	544	4,559	18	15						
			Thru	Westlands Water District	4,559										
			122.05	Department of Fish and Game	33										
		Check No. 16	122.07												
	17		124.18	Westlands Water District	1,224										
			Thru												
		Check No. 17	132.74												
	18		133.81	Westlands Water District	3,143										
			Thru												
		Pleasant Valley Pumping Plant	142.61	Westlands Water District	4,058										
			143.16	Westlands Water District	544										
			143.16	City of Coalinga											
6	19		Check No. 18	143.23											
				Westlands WD Reach 5 Subtotal:	12,984	0	12,984	0	0	0					
			145.26	Westlands Water District	3,936	1	2,902	1,034	1/ 230						
			Thru	Westlands Water District											
			151.19	Lemoore Naval Air Station	230										
				City of Huron (P&R)	1										
			Check No. 19	155.64											
7	20			Westlands WD Reach 6 Subtotal:	0	0		0	0	0					
			156.34	City of Huron	83	227	83	2/ 3							
			156.40	SWP Construction @ Lat. 23R	3										
			Thru	Westlands Water District	1,360										
		Check No. 20	163.69												
	21		164.79	City of Avenal	227	922	1,360								
			167.04	Westlands Water District	922										
		Check No. 21	171.67												
		Check No. 21	172.40		153,686										
				Reach 7 Total:	2,592	2,592		0	0	0					
				SWP Construction	3	0		3							
				Westlands WD Total:	22,838	5,184	17,654	0	0	0					
				City of Coalinga Total:	544	544		0	0	0					
				Kings County to Lemoore N.A.S. through Westlands @29L & 30L	230	0		230							
				City of Huron Total:	84	84		0	0	0					
				City of Avenal Total:	227	227		0	0	0					
				Total San Luis Field Division Deliveries:	36,170	18,175	17,654	233	60	48					

1/ Westlands Water District transferred 230 AF from County of Kings to Lemoore N.A.S.

2/ SWP water pumped at Banks and delivered through WWD turnout for construction at Arroyo Pasajero.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

October 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project	Dos Amigos Pumping Plant	San Luis Water District 2/	Panoche Water District	Westlands Water District 3/	Flow Past Check 21	
Sep 30	27,676								
1	28,746	1,070	0	4,193	73	11	637	2,817	-116
2	28,085	-661	0	3,910	73	11	637	3,444	-78
3	29,255	1,170	0	4,483	73	11	637	3,062	-110
4	28,704	-551	0	2,945	73	11	637	2,651	149
5	28,898	194	0	3,474	73	11	637	2,588	-67
6	29,513	615	0	3,930	73	12	639	2,733	-163
7	29,226	-287	0	3,270	71	10	521	2,637	-176
8	28,452	-774	0	3,641	71	10	521	3,288	-141
9	29,006	554	0	4,420	71	10	521	3,352	-187
10	29,562	556	0	4,801	71	10	521	3,979	60
11	28,770	-792	0	2,860	71	10	521	2,753	96
12	28,660	-110	0	2,653	71	10	521	2,010	-96
13	29,128	468	0	3,797	71	11	525	2,859	-95
14	29,118	-10	0	3,346	56	0	411	2,603	-281
15	28,068	-1,050	0	3,235	56	0	411	3,103	-194
16	28,878	810	0	4,215	56	0	411	3,142	-198
17	29,364	486	0	4,588	56	0	411	3,896	20
18	28,837	-527	0	2,709	56	0	411	2,460	-48
19	29,427	590	0	2,290	56	0	411	1,684	158
20	29,142	-285	0	1,484	56	0	411	1,475	314
21	28,246	-896	0	1,769	11	13	162	2,163	128
22	28,556	310	0	2,180	11	13	162	1,824	-14
23	28,908	352	0	2,401	11	13	162	2,095	57
24	28,451	-457	0	2,432	11	13	162	2,646	170
25	28,809	358	0	2,328	11	13	162	1,980	18
26	29,167	358	0	2,042	11	13	162	1,830	154
4/ 27	28,748	-419	0	1,121	12	14	162	1,255	119
28	28,751	3	0	1,798	19	0	152	1,723	98
29	29,372	621	0	1,801	19	0	152	1,334	17
30	29,121	-251	0	1,627	19	0	152	1,665	82
31	29,261	140	0	2,864	19	0	152	2,431	-191
Total		1,585	0	92,607	1,481	230	12,094	77,482	-515
Mean cfs		---	0	2,987	48	7	390	2,499	-17
Acre-feet		1,585	0	183,776	2,938	456	23,989	153,686	-1,022

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 377 AF AG & 2 AF M&I to Pacheco W.D., 113 AF to the City of Dos Palos, and 2,447 AF to San Luis Water District.

3/ Includes 83 AF to the City of Huron, 1 AF to the City of Huron Parks and Recreation, 227 AF to the City of Avenal, 544 AF to the city of Coalinga, 3 AF to Broadview W.D., 230 AF to Lemoore N.A.S. @ 30L,

3 AF to SWP construction @ 23R, and 22,894 AF tp Westlands WD.,

4/ 25 hr.; the factor for converting CFS/AF is 2.0661 on 10/27/02.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

October 2004

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	268	268	124	115	117	5,369	5,837	5,609	5,525
2	326	326	141	132	135	6,275	6,563	6,365	6,287
3	243	243	138	125	134	6,070	6,616	6,302	6,243
4	240	240	111	102	108	4,343	5,149	4,598	4,551
5	312	312	135	121	126	5,057	5,255	5,065	4,906
6	350	350	135	127	131	5,627	5,867	5,376	5,188
7	356	356	130	122	139	5,409	5,635	5,302	5,267
8	270	270	101	93	98	5,222	5,417	5,199	5,155
9	270	270	94	87	94	6,220	6,510	6,291	6,124
10	293	293	139	129	138	7,589	7,845	7,603	7,679
11	267	267	104	89	100	5,141	5,535	5,347	5,183
12	281	281	72	67	74	4,200	4,112	3,914	3,930
13	233	233	105	98	102	5,453	5,570	5,358	5,240
14	273	273	210	113	117	5,243	5,409	5,166	5,101
15	222	222	130	119	123	5,403	5,422	5,152	5,087
16	116	116	121	112	116	6,021	6,285	5,973	5,994
17	131	131	128	117	127	7,456	8,103	7,770	7,735
18	124	124	84	77	83	4,781	4,950	4,778	4,697
19	125	125	95	86	93	3,845	3,967	3,831	3,658
20	110	110	76	69	78	3,354	3,757	3,540	3,465
21	135	135	96	88	95	4,700	4,634	4,301	4,321
22	169	169	99	91	97	3,760	4,156	3,941	3,898
23	122	122	96	83	93	4,956	4,932	4,673	4,673
24	77	77	93	84	94	5,731	6,146	5,898	5,965
25	138	138	88	78	87	3,916	4,311	3,983	3,897
26	121	121	88	84	88	3,812	3,960	3,732	3,684
27	80	80	76	71	76	2,783	3,043	2,963	3,010
28	120	120	101	93	100	4,085	4,413	4,316	4,302
29	130	130	93	84	91	3,631	4,086	3,910	3,758
30	72	72	77	70	77	3,838	4,019	3,913	3,872
31	87	87	97	85	99	5,421	5,925	5,825	5,717
Total	6,061	6,061	3,377	3,011	3,230	154,711	163,429	155,994	154,112

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Recovery of Pump In	Kern Water Bank Recovery	Dry Year Purchase		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		153,686							
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	0	120	530	305	100			
				County of Kings TL - A	120							
				TLBWSD TL-A	530							
8D			175.18	DRWD - 1	405	305	93	156	1,641			
			177.54	DRWD - 1B	93							
			180.64	TLBWSD - C	0							
			180.65	DRWD - 1A	156	1,641	3	849	3,047	0		
			182.99	DRWD - 2	1,641							
			183.00	Tulare Lake Basin WSD TL - B	0							
31A			184.00	DRWD - Paramount	3	3	849	0	100	0		
			184.63	Coastal Branch	6,061							
			184.78	Dudley Ridge Water Dist. DRWD - 3	849							
				Dudley Ridge Reach 8D Total:	3,147	530	0	0	100	0		
				Tulare Lake Basin WSD Total:	530							
Check No. 22		184.82										
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	1,708				1,708			
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	485							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	63							
			196.40	Kern County Water Agency Berrenda Mesa - 2	0							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	0							
				K.C.W.A. Reach 9 Subtotal:	2,256							
		Check No. 23	197.05			0	0	2,256	0	0		
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	135				118			
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	464							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	5							
			207.94									
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	667		5,687	667	0	0		
			209.78	Kern National Wildlife Refuge USBR BV-1B	5,687							
				Kern County Water Agency Buena Vista WSD 1B	0							
			209.80	KCWA Semitropic WSD	0							
				KCWA Semitropic WSD Penstocks	0							
				USBR Total:	5,687	0	5,687	0	0	0		
				K.C.W.A. Reach 10A Subtotal:	1,271	22	0	1,249	0	0		

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Table A Amount	CVC	Recovery of Pump In	Kern Water Bank Recovery	Dry Year Purchase		
	No.	Structure	Mile									
11B	25	210.75	Kern County Water Agency Belridge - 2	155	90	155	3,718	0	0	0		
		214.11	Kern County Water Agency Belridge - 3	0								
		216.62	Kern County Water Agency Belridge - 4	0								
		217.13	Kern County Water Agency Belridge - 5	3,718								
			Kern County Water Agency Belridge - 5D	90								
		Check No. 25	217.79									
			K.C.W.A. Reach 11B Subtotal:	3,963								
12D	26	219.58	Kern County Water Agency Belridge - 6	0	414	414	0	0	0	0		
			Kern County Water Agency West Kern - 3	414								
		Check No. 26	224.92									
12E	27	230.37	Kern County Water Agency Buena Vista - 6	0	468	161	0	0	0	0		
		Check No. 27	231.73									
	28	235.75	Kern County Water Agency Buena Vista - 2	0								
		238.04	Kern County WA CVC	161								
			DRWD CVC	0								
			Hills Valley	468								
			Tri Valley	159								
			County of Tulare	742								
			Pixley ID	0								
			Hacienda									
			DWR Wells	0								
	Check No. 28	238.11										
			1/ Arvin Edison Total:	1,369	0	1,369	0	0	0	0		
			Reach 12E Subtotal:	161								
13B	29	238.19	Kern Water Bank Inflow	0	0	0	0	0	0	0		
			Kern Water Bank Outflow	0								
		241.02	Kern River Intertie (inflow)	0								
		242.85	KCWA Buena Vista WSD - 7	0								
			KCWA Buena Vista WSD - 5	0								
		243.09	Kern County Water Agency Buena Vista - 3	0								
		Check No. 29	244.54	Buena Vista WSD								
	30	249.85	Kern County Water Agency Buena Vista - 4	0	154,711	0	0	0	0	0		
		Buena Vista Pumping Plant	250.99									
			K.C.W.A. Reach 13B Subtotal:	0								
14A	31	254.47	Kern County Water Agency West Kern - 2	0	0	0	0	0	0	0		
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	0								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	CVC	Recovery of Pump In	Kern Water Bank Recovery	Dry Year Purchase		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			56	360	416	0	0		
	32		258.61		Kern County Water Agency							
			Wheeler Ridge-Maricopa - 3		56							
			260.44		Kern County Water Agency							
		Check No. 32	261.72		Wheeler Ridge-Maricopa - 4		360					
14B	33		KCWA Reach 14A Subtotal:			416	0	0	416	0	0	
			264.42		Kern County Water Agency	846	258	680	0	0		
			266.91		Wheeler Ridge-Maricopa - 5							
			Check No. 33		Wheeler Ridge-Maricopa - 6							
	34		267.36		Kern County Water Agency							
			270.24		Wheeler Ridge-Maricopa - 7							
			Check No. 34		271.27							
14C	35		Reach 14B Total:			1,784	0	0	1,784	0	0	
			272.39		Kern County Water Agency	390	167	557	0	0		
			276.09		Wheeler Ridge-Maricopa - 8							
					Kern County Water Agency							
					Wheeler Ridge-Maricopa - 9							
15A	36		Reach 14C Total:			557	0	0	557	0	0	
			278.13		Teerink Pumping Plant	163,429	248	1,892	0	0		
			279.02		Kern County Water Agency							
			280.06		Wheeler Ridge-Maricopa - 9A							
					Kern County Water Agency							
16A	37		Wheeler Ridge-Maricopa - 10			1,892	2,140	0	0	0		
						Reach 15-A Total:						
			280.36		Chrismen Pumping Plant	155,994						
			282.06		Kern County Water Agency							
			Check No. 37		Wheeler Ridge-Maricopa - 11	0						
			283.95									
			285.01		Kern County Water Agency							
			286.39		Wheeler Ridge-Maricopa - 12	17						
			287.06		Kern County Water Agency							
			Check No. 38		Wheeler Ridge-Maricopa - 13A	55						
16A	38		287.62		Kern County Water Agency	0	86	860	0	0		
			287.09		Wheeler Ridge-Maricopa - 13B							
			287.62		Kern County Water Agency							
			Check No. 39		Wheeler Ridge-Maricopa - 14							
			291.26		Kern County Water Agency	528	30	860	0	0		
16A	40		293.07		Wheeler Ridge-Maricopa - 15							
					Kern County Water Agency							
					Tehachapi Cummings CWD							
					K.C.W.A. Reach 16A Subtotal:	1,576						
			293.45		Edmonston Pumping Plant	154,112						
17E												

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

October 2004

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	CVC	Recovery of Pump In	Kern Water Bank Recovery	Dry Year Purchase		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		6,061							
		Las Perillas Pumping Plant	1.16		6,061							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		6,061							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0		192	2,472				
			14.83	Kern County Water Agency Berrenda Mesa - 1	2,664							
				Kern County Water Agency Berrenda Mesa - PO	499							
		Devil's Den Pumping Plant	14.86		3,377							
				K.C.W.A. Reach 31A Subtotal:	3,163		691	0	2,472	0	0	
				K.C.W.A. Total:	19,070		1,217	1,369	16,484	0	0	
33A	C-7	Bluestone Pumping Plant	19.05		3,011		2,746					
	C-8	Polonio Pass Pumping Plant	26.54		3,230							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,746							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	396		396					
		Energy Dissipater	78.12									
35	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0		3,142	0	0	0		
				CCWA Total:	3,142							
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0		0	0	0	0		
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

October 2004

Date	West Branch					East Branch											
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Cherry Valley	Green Spot	Crafton Hills	
		Generation	Bypass	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume					
28	1	2,231	2,354	0	4,338	3,292	3,020	0	165	3,272	3,142	0	0	3,072	0	23	19
	2	2,311	1,847	0	561	2,812	3,503	0	327	3,109	3,079	0	0	2,822	0	11	0
	3	2,731	2,081	0	3,954	2,300	3,253	0	241	3,558	3,587	0	0	3,199	0	12	0
	4	2,158	2,416	0	4,613	1,828	2,352	0	50	2,097	2,238	0	0	3,311	2	23	17
	5	1,812	2,007	0	3,223	691	2,929	0	206	2,650	2,623	0	0	3,014	0	22	17
	6	1,921	2,127	0	5,281	2,502	3,026	0	197	2,934	3,012	0	0	3,230	4	23	18
	7	1,800	1,889	0	5,965	2,822	3,065	0	463	3,083	3,070	0	0	3,202	4	20	16
	8	1,795	1,911	0	7,102	1,985	2,927	0	369	3,388	3,321	0	0	3,140	0	23	18
	9	1,948	2,057	0	1,513	2,336	3,614	0	601	3,780	3,629	0	0	3,265	0	11	0
	10	3,251	2,149	0	1,226	3,581	3,628	0	760	4,091	4,019	0	0	2,905	0	12	0
	11	1,491	2,093	0	4,749	1,689	3,058	0	512	3,469	3,657	0	0	3,372	3	22	17
	12	1,938	2,274	0	7,043	1,646	1,790	0	149	1,757	1,652	0	0	3,284	2	16	11
	13	1,951	2,113	0	4,758	1,089	3,193	0	147	3,041	3,535	0	0	2,932	3	16	13
	14	1,802	2,378	0	3,378	1,469	3,167	0	132	3,028	2,689	0	0	3,183	4	16	13
	15	1,755	1,228	0	4,360	1,999	2,908	0	331	3,019	3,264	0	0	3,095	0	16	11
	16	2,064	2,273	0	1,893	2,618	3,606	0	333	3,628	3,497	0	0	3,263	0	14	11
	17	3,225	2,049	0	3,435	4,368	3,723	0	689	4,126	4,046	0	0	3,064	0	6	4
	18	1,435	1,594	0	4,288	2,631	2,947	0	288	2,988	3,227	0	0	3,238	3	16	9
	19	1,455	1,744	0	4,475	1,440	1,986	0	240	1,998	1,978	0	0	2,793	4	16	12
	20	1,444	1,455	0	6,181	995	1,885	0	188	2,007	2,300	0	0	2,527	0	14	10
	21	1,721	1,593	44	6,288	2,822	2,474	0	147	2,787	2,831	0	0	2,207	0	3	0
	22	1,376	1,953	0	1,831	2,191	2,277	0	267	2,459	2,484	0	0	2,551	0	9	6
	23	1,434	1,571	0	204	1,871	2,827	0	307	2,988	3,088	0	0	2,202	0	0	0
	24	3,031	1,185	0	2,277	3,463	2,586	0	324	2,621	2,586	0	0	2,233	0	0	0
	25	1,374	1,701	0	4,106	1,531	2,306	0	243	2,379	2,550	0	0	2,534	2	9	0
	26	1,353	1,772	0	3,065	825	2,098	0	152	1,990	1,797	0	0	2,414	3	5	2
	27	1,203	1,865	0	2,831	490	1,660	0	206	1,848	2,203	0	0	2,884	0	0	0
	28	2,339	1,515	0	3,564	2,002	1,790	0	70	1,891	1,829	0	0	2,609	0	0	0
	29	1,603	1,692	0	4,039	764	2,302	0	0	2,127	2,185	0	0	2,768	0	7	0
	30	1,771	1,588	0	250	668	2,149	0	0	2,050	2,015	0	0	2,292	0	0	0
	31	2,186	2,316	0	2,784	2,752	3,424	0	128	3,375	3,224	0	0	2,216	0	0	0
	Total	59,909	58,790	44	113,575	63,472	85,473	0	8,232	87,538	88,357	0	0	88,821	34	365	224

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				United Water Agency	Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural			
				Castaic Powerplant Pumpback 1/	Warne Powerplant 2/	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek			
Sep 30	2570.96	160,971										
1	2571.95	162,208	1,237	3,292	2,354	6	4,338	0	19	0	-58	
2	2575.12	166,210	4,002	2,812	1,847	6	561	0	19	0	-83	
3	2575.48	166,668	458	2,300	2,081	7	3,954	0	16	0	40	
4	2574.84	165,853	-815	1,828	2,416	7	4,613	0	16	0	-437	
5	2574.41	165,308	-545	691	2,007	7	3,223	0	17	0	-10	
6	2573.83	164,573	-735	2,502	2,127	6	5,281	0	14	0	-75	
7	2572.78	163,249	-1,324	2,822	1,889	6	5,965	0	12	0	-64	
8	2570.18	160,001	-3,248	1,985	1,911	6	7,102	0	12	0	-36	
9	2572.48	162,873	2,872	2,336	2,057	6	1,513	0	12	0	-2	
10	2575.89	167,191	4,318	3,581	2,149	7	1,226	0	12	0	-181	
11	2575.11	166,197	-994	1,689	2,093	6	4,749	0	12	0	-21	
12	2572.62	163,048	-3,149	1,646	2,274	6	7,043	0	12	0	-20	
13	2571.35	161,458	-1,590	1,089	2,113	6	4,758	0	12	0	-28	
14	2571.58	161,745	287	1,469	2,378	6	3,378	0	12	0	-176	
15	2570.65	160,585	-1,160	1,999	1,228	6	4,360	0	12	0	-21	
16	2573.01	163,539	2,954	2,618	2,273	7	1,893	0	12	0	-39	
17	2575.38	166,541	3,002	4,368	2,049	11	3,435	0	12	0	21	
18	2575.30	166,439	-102	2,631	1,594	8	4,288	0	12	0	-35	
19	2574.47	165,384	-1,055	1,440	1,744	38	4,475	1	12	0	211	
20	2571.59	161,758	-3,626	995	1,455	54	6,181	0	12	0	63	
21	2570.12	159,927	-1,831	2,822	1,637	16	6,288	0	12	0	-6	
22	2571.94	162,195	2,268	2,191	1,953	11	1,831	0	12	0	-44	
23	2574.43	165,333	3,138	1,871	1,571	9	204	0	12	0	-97	
24	2576.24	167,639	2,306	3,463	1,185	8	2,277	0	12	0	-61	
25	2575.47	166,655	-984	1,531	1,701	8	4,106	0	12	0	-106	
26	2575.11	166,197	-458	825	1,772	36	3,065	0	12	0	-14	
27	2574.67	165,638	-559	490	1,865	75	2,831	0	13	0	-145	
28	2574.63	165,587	-51	2,002	1,515	29	3,564	0	13	0	-20	
29	2573.40	164,030	-1,557	764	1,692	19	4,039	0	13	0	20	
30	2574.94	165,981	1,951	668	1,588	16	250	0	13	0	-58	
31	2576.65	168,164	2,183	2,752	2,316	16	2,784	0	13	0	-104	
Total				7,193	63,472	58,834	455	113,575	1	406	0	-1,586

1/ Values supplied by LADWP, not verified by DWR.

2/ Includes 44 AF of bypass.

Table 26. Elderberry Forebay

Daily Operation
(in acre-feet except as noted)

Capacity: 32,476 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Sep 30	1522.00	24,100								
1	1517.90	22,354	-1,746	4,338	0	3,292	0	2,791	-1	
2	1512.80	20,278	-2,076	561	0	2,812	0	0	175	
3	1511.10	19,610	-668	3,954	0	2,300	0	2,322	0	
4	1512.60	20,199	589	4,613	0	1,828	0	2,197	1	
5	1509.50	18,992	-1,207	3,223	0	691	0	3,738	-1	
6	1511.25	19,668	676	5,281	0	2,502	0	2,103	0	
7	1515.80	21,486	1,818	5,965	0	2,822	0	1,326	1	
8	1521.50	23,884	2,398	7,102	0	1,985	0	2,718	-1	
9	1513.40	20,516	-3,368	1,513	0	2,336	0	2,545	0	
10	1507.00	18,048	-2,468	1,226	0	3,581	0	0	-113	
11	1508.60	18,650	602	4,749	0	1,689	0	2,458	0	
12	1514.70	21,039	2,389	7,043	0	1,646	0	3,009	1	
13	1516.90	21,939	900	4,758	0	1,089	0	2,768	-1	
14	1515.10	21,201	-738	3,378	0	1,469	0	2,647	0	
15	1515.90	21,527	326	4,360	0	1,999	0	2,037	2	
16	1514.20	20,837	-690	1,893	0	2,618	0	0	35	
17	1513.20	20,437	-400	3,435	0	4,368	0	0	533	
18	1510.20	19,261	-1,176	4,288	0	2,631	0	2,833	0	
19	1517.80	22,313	3,052	4,475	0	1,440	0	0	17	
20	1522.65	24,382	2,069	6,181	7	995	7	3,208	91	
21	1530.00	27,681	3,299	6,288	0	2,822	0	0	-167	
22	1522.75	24,426	-3,255	1,831	0	2,191	0	2,893	-2	
23	1511.70	19,844	-4,582	204	0	1,871	0	2,916	1	
24	1507.65	18,291	-1,553	2,277	0	3,463	0	0	-367	
25	1515.30	21,282	2,991	4,106	0	1,531	0	0	416	
26	1511.20	19,649	-1,633	3,065	0	825	0	3,792	-81	
27	1513.25	20,457	808	2,831	8	490	8	1,524	-9	
28	1511.65	19,825	-632	3,564	1	2,002	1	2,198	4	
29	1518.10	22,438	2,613	4,039	1	764	1	664	2	
30	1511.00	19,571	-2,867	250	1	668	1	2,446	-3	
31	1506.45	17,843	-1,728	2,784	1	2,752	1	1,759	-1	
Total				-6,257	113,575	19	63,472	19	56,892	
									532	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay /1		Natural	Deliveries		
				Natural	Project				
Sep 30	1503.08	297,697							
1	1502.96	297,431	-266	0	2,791	0	2,674	0	
2	1501.73	294,833	-2,598	0	0	0	2,741	0	
3	1501.55	294,452	-381	0	2,322	0	2,553	0	
4	1501.40	294,135	-317	0	2,197	0	2,670	0	
5	1501.84	295,066	931	0	3,738	0	2,565	0	
6	1501.57	294,495	-571	0	2,103	0	2,716	0	
7	1500.97	293,228	-1,267	0	1,326	0	2,673	0	
8	1500.95	293,185	-43	0	2,718	0	2,742	0	
9	1500.89	293,059	-126	0	2,545	0	2,730	0	
10	1499.62	290,389	-2,670	0	0	0	2,682	0	
11	1499.35	289,823	-566	0	2,458	0	2,661	0	
12	1499.44	290,012	189	0	3,009	0	2,726	0	
13	1499.45	290,032	20	0	2,768	0	2,677	0	
14	1499.45	290,032	0	0	2,647	0	2,716	0	
15	1498.97	289,028	-1,004	0	2,037	0	2,746	0	
16	1497.71	286,400	-2,628	0	0	0	2,607	0	
17	1496.61	284,118	-2,282	0	0	0	2,436	0	
18	1496.67	284,242	124	0	2,833	0	2,303	0	
19	1495.89	282,630	-1,612	0	0	0	2,110	0	
20	1496.63	284,159	1,529	7	3,208	74	1,831	50	
21	1495.78	282,403	-1,756	0	0	4	1,782	6	
22	1496.30	283,477	1,074	0	2,893	1	1,785	6	
23	1496.90	284,718	1,241	0	2,916	1	1,657	6	
24	1496.22	283,311	-1,407	0	0	1	1,643	4	
25	1495.35	281,517	-1,794	0	0	1	1,820	0	
26	1496.28	283,435	1,918	0	3,792	2	1,846	0	
27	1496.44	283,766	331	8	1,524	48	1,806	22	
28	1496.59	284,076	310	1	2,198	11	1,758	14	
29	1495.99	282,836	-1,240	1	664	5	1,705	12	
30	1496.42	283,725	889	1	2,446	2	1,697	12	
31	1496.21	283,290	-435	1	1,759	1	1,718	11	
Total			-14,407	19	56,892	151	70,776	143	
-550									

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		59,909							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	1	1					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07	(Includes 44 AF of Bypass)	58,834							
29H	W3	Pyramid Lake		Calif. State Park		1						
			14.10	Pyramid Recreation		0						
		Pyramid Dam	17.10	United Water Conservation Dist.		0						
29J	W4	Castaic Power Plant	25.82	(63,472 AF pumpback) 2/	113,575							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park		33						
		Castaic Dam	31.47	Castaic Lake Recreation		0						
		Castaic Lake Outlet	31.55	MWD - 78"	13,075	53,539	1,459	13,075	550			
				MWD - 132"	54,089							
				Castaic Lake WA - T1	1,459							
				Castaic Lake WA	2,120							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	0							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	143							
				Reach 30 Subtotal:	70,776	57,118	33	13,625	0	0		
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87		156							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Rec.	San Bernardino Tunnel						
Sep 30	3351.65	71,739												
1	3351.65	71,739	0	3,142	0	0	9	0	3,072	0	0	-61	5	
2	3351.93	72,006	267	3,079	0	0	8	1	2,822	0	0	19	5	
3	3352.41	72,465	459	3,587	0	0	8	1	3,199	0	1	81	5	
4	3351.20	71,311	-1,154	2,238	0	0	8	1	3,311	0	0	-72	5	
5	3350.81	70,941	-370	2,623	0	0	9	0	3,014	0	1	31	5	
6	3350.61	70,752	-189	3,012	0	0	7	1	3,230	0	0	37	5	
7	3350.45	70,601	-151	3,070	0	0	9	0	3,202	0	0	-10	5	
8	3350.67	70,809	208	3,321	0	0	6	1	3,140	0	1	35	5	
9	3351.06	71,178	369	3,629	0	0	5	1	3,265	0	0	11	5	
10	3352.27	72,331	1,153	4,019	0	0	5	1	2,905	0	0	45	5	
11	3352.47	72,523	192	3,657	0	0	8	0	3,372	0	1	-84	5	
12	3351.05	71,161	-1,362	1,652	0	0	7	1	3,284	0	0	278	5	
13	3351.34	71,444	283	3,535	0	0	7	1	2,932	0	0	-312	5	
14	3350.98	71,102	-342	2,689	0	0	8	0	3,183	0	1	161	5	
15	3351.20	71,311	209	3,264	0	0	8	1	3,095	0	0	49	5	
16	3351.34	71,444	133	3,497	0	0	9	0	3,263	0	1	-91	5	
17	3352.50	72,551	1,107	4,046	0	0	8	0	3,064	0	0	133	5	
18	3352.50	72,551	0	3,227	0	1	7	1	3,238	0	1	19	5	
19	3351.99	72,063	-488	1,978	0	334	6	1	2,793	0	0	0	5	
20	3353.66	73,668	1,605	2,300	0	2,481	6	1	2,527	0	642	0	5	
21	3353.65	73,658	-10	2,831	0	380	2	1	2,207	0	1,008	-3	5	
22	3353.00	73,032	-626	2,484	0	151	8	0	2,551	0	703	1	5	
23	3353.72	73,726	694	3,088	0	120	5	1	2,202	0	202	-104	5	
24	3353.90	73,900	174	2,586	0	79	8	0	2,233	0	203	-47	5	
25	3353.76	73,765	-135	2,550	0	49	7	1	2,534	0	69	-123	5	
26	3353.49	73,504	-261	1,797	0	32	6	0	2,414	0	0	330	5	
27	3353.14	73,166	-338	2,203	0	1,126	5	1	2,884	0	778	1	15	
28	3351.93	72,006	-1,160	1,829	0	549	5	1	2,609	0	526	-397	20	
29	3351.54	71,634	-372	2,185	0	319	6	0	2,768	0	0	-102	20	
30	3351.40	71,501	-133	2,015	0	212	3	1	2,292	0	0	-64	20	
31	3352.07	72,140	639	3,224	0	130	5	0	2,216	0	0	-494	20	
Total				401	88,357	0	5,963	208	19	88,821	0	4,138	-733	225

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

October 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Sep 30	1583.38	116,421				
1	1583.30	116,243	-178		0	
2	1583.38	116,421	178		16	
3	1583.20	116,021	-400		9	
4	1583.10	115,800	-221		10	
5	1583.05	115,689	-111		100	
6	1583.16	115,933	244		8	
7	1583.21	116,033	100		10	
8	1583.21	116,044	11		9	
9	1583.21	116,044	0		8	
10	1583.20	116,021	-23		9	
11	1583.21	116,044	23		9	
12	1583.23	116,088	44		9	
13	1583.19	115,999	-89		8	
14	1583.21	116,044	45		10	
15	1583.16	115,933	-111		7	
16	1583.13	115,866	-67		10	
17	1583.13	115,866	0		9	
18	1583.28	116,199	333		9	
19	1583.35	116,354	155		9	
20	1583.76	117,265	911		10	
21	1583.87	117,509	244		95	
22	1584.09	118,000	491		211	
23	1584.29	118,446	446		8	
24	1584.49	118,893	447		9	
25	1584.71	119,385	492		10	
26	1584.93	119,878	493		9	
27	1585.27	120,642	764		11	
28	1585.36	120,844	202		11	
29	1585.66	121,520	676		12	
30	1585.88	122,016	496		9	
31	1585.88	122,016	0		184	
Total			5,595	7,330	838	-897

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes only deliveries of 838 AF to MWD from Reach 28J.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

October 2004

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Transfer	Purchase Pool A	Transfer Local Out		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		154,112							
	41		298.65		Kern County Water Agency Tej.-Cas		Stub					
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 8,232 AF flow down Cottonwood Chute)	85,473			103				
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West	0							
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	0							
				Mojave Water Agency Fairmont	103							
		Check No. 46	323.84									
				Reach 19 Total:	103	0	0	103	0	0		
20A	47	Check No. 47	326.77			155	2,789	37				
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	155							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0							
				Antelope Valley-East Kern WA	2,789							
			339.68	Antelope Valley-East Kern WA	37							
20B	Check No. 50		341.51			7	515	152				
	51	Check No. 51	342.07									
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use							
			343.30	Antelope Valley-East Kern WA Temporary 12	7							
	Check No. 52		343.74									
	53		346.98	PWD Palmdale	515							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	152							
21	Check No. 53		348.17			82	296					
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
22A	56	Check No. 56	354.76			296						
			354.97	Littlerock Creek I.D.	0							
	57	Check No. 57	356.93									
22A	58		357.60	Antelope Valley-East Kern WA	82	296						
			357.72	Antelope Valley-East Kern WA 96th Street East	0							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	296							

Table 31b. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

October 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		87,538	35	35	Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery		
	59	Check No. 59	366.09									
	60		366.50		Antelope Valley-East Kern WA 35							
		Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20		Mojave Water Agency Mojave River 463		463	Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery		
			394.60		Mojave Water Agency Temporary 0							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10		Mojave Water Agency Morongo 24" and 42" 576			Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery		
					Mojave Water Agency Hesperia 0							
23		Check No. 66	403.41									
		Mojave Siphon	405.48		Las Flores Ranch 225							
24	67	Mojave Siphon Powerplant	405.65				208	Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery		
		Silverwood Lake	407.65		Crestline Lake Arrowhead Water Agency 208							
25		San Bernardino Tunnel Intake	407.70		Calif. State Park Silverwood Agency (Rec.) 19							
		Devil Canyon Powerplant	412.73									
26A	68	Devil Canyon Afterbay Control Structures	412.88		MWD-SC Rialto 39,064		12,764	Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery		
					Desert Water Agency (MWD Wheeling Exchange) 1,278							
					MWD-SC T290 572							
					San Gabriel Valley Water District 0							
					Coachella Valley WD (MWD Wheeling Exchange) 1,106							
					San Bernardino Valley MWD 24" and 72" 0							
					San Bernardino Valley MWD 48" 0							
					MWD (SBVMWD Exchange) T291 8,723							
					San Gorgonio Pass Water Agency 36							
28G	69	Santa Ana Valley Pipeline	425.46									
28H			433.06		MWD-SC Box Springs 6,372		6,372	Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery		
			440.05		MWD-SC Perris Bypass Pipeline 21,060							
28J		Lake Perris	442.00		MWD-SC 18" 290							
			443.44		MWD-SC 54" 185							
					MWD-SC 78" 363							
					Calif. State Park Lake Perris Recreation 0							
					MWD Total: 146,177							
						106,252	Arvin Edison Water Bank Recovery	Transfer	Semitropic Water Bank Recovery	26,300		

Table 32. Water Quality At Selected SWP Locations

October 2004

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	43	116	80	80	83	87	84.5	85	78
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
Bromide	mg/l	<0.01	0.03	0.34	0.34	0.34	0.40	0.33	0.29	0.19
Calcium	mg/l	8	17	18	18	20	20	21	22	22
Carbon - Dissolved Organic	mg/l as C	NR	5	3	3	3	3	3	2	4
Carbon - Total Organic	mg/l as C	NR	7	3	3	3	3	3	2	9
Chloride	mg/l	1	17	102	95	101	93	90	90	70
Chromium	mg/l	<0.001	0.001	0.003	0.004	0.003	0.004	0.004	0.004	0.002
Copper	mg/l	0.001	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.003
Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l as CaCO ₃	36	108	98	98	108	106.5	100.5	104	100
Iron	mg/l	<0.005	0.017	<0.005	0.014	<0.005	<0.005	<0.005	0.010	0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	16	13	13	14	14	12	12	11
Manganese	mg/l	<0.005	0.035	0.016	<0.005	<0.005	<0.005	<0.005	<0.005	0.029
Nitrate + Nitrite	mg/l as N	<0.01	0.24	0.35	NR	0.38	0.32	0.43	0.66	0.67
Phosphorus-Ortho	mg/l as P	<0.01	0.10	0.05	NR	0.07	0.07	NR	0.05	0.09
Phosphorus-Total	mg/l	0.01	0.24	0.07	NR	0.08	0.09	0.06	0.05	0.46
Selenium	mg/l	<0.001	<0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.001
Sodium	mg/l	3	19	64	59	67	61.5	61	62	55
Specific Conductance	µS/cm	82	310	551	528	546	525	521	517	432
Sulfate	mg/l	2	19	31	32	32	30.5	33.5	34	28
Total Dissolved Solids	mg/l	52	181	309	298	306.5	291.5	292	310.5	241
Turbidity	NTU	3	73	11	9	3	2.5	3.5	5	167
Zinc	mg/l	<0.005	<0.005	<0.005	0.015	<0.005	0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

October 2004

Date	Antioch Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in milliSiemens/cm									Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
38	1	2.87	1.15	4,413	4,413	6,003	4.54	11.36	1.63	1.32	1.55	1.42	0.58	0.53	0.41	148
	2	2.87	1.07	4,865	4,639	5,927	4.32	10.76	1.53	1.34	1.49	1.43	0.59	0.61	0.43	146
	3	2.97	1.22	6,022	5,100	6,410	4.36	11.11	1.63	1.38	1.51	1.44	0.58	0.62	0.50	150
	4	2.91	1.31	5,679	5,245	6,029	4.30	11.47	1.83	1.45	1.49	1.46	0.58	0.66	0.52	148
	5	2.59	1.23	4,139	5,024	4,869	3.86	10.05	1.36	1.49	1.40	1.47	0.56	0.67	0.52	145
	6	2.43	1.07	3,477	4,766	5,152	3.63	9.08	1.08	1.49	1.31	1.47	0.57	0.64	0.53	145
	7	2.33	1.01	3,094	4,527	4,883	3.48	7.53	1.06	1.49	1.25	1.46	0.59	0.62	0.54	141
	8	2.41	0.92	3,390	4,385	4,699	3.51	5.72	1.10	1.48	1.21	1.45	0.59	0.58	0.53	146
	9	2.41	0.79	3,663	4,305	4,522	3.41	5.34	0.96	1.44	1.17	1.43	0.58	0.59	0.52	148
	10	2.18	0.64	4,210	4,295	4,961	3.16	5.26	0.87	1.40	1.09	1.40	0.61	0.63	0.51	152
	11	2.27	0.65	4,139	4,281	4,812	2.94	5.79	0.84	1.36	1.07	1.37	0.59	0.65	0.53	156
	12	2.22	0.70	3,882	4,248	4,706	3.27	6.39	1.03	1.31	1.07	1.34	0.57	0.68	0.52	157
	13	2.46	0.80	3,734	4,208	4,657	3.44	8.29	1.31	1.28	1.10	1.31	0.59	0.65	0.50	158
	14	2.78	0.90	3,821	4,181	4,755	3.71	10.83	1.47	1.26	1.13	1.27	0.58	0.64	0.50	159
	15	3.20	1.21	3,668	4,146	4,656	4.32	12.09	2.06	1.29	1.24	1.25	0.56	0.58	0.50	159
	16	3.66	1.55	3,572	4,111	4,501	5.29	14.05	2.88	1.39	1.46	1.25	0.55	0.53	0.50	161
	17	3.78	1.54	3,605	4,081	4,402	5.50	13.73	2.95	1.49	1.59	1.26	0.54	0.58	0.50	162
	18	3.67	1.61	4,331	4,095	4,558	5.43	13.59	2.61	1.54	1.61	1.26	0.54	0.70	0.51	163
	19	4.21	2.03	4,789	4,131	5,201	6.36	14.66	3.57	1.70	2.08	1.31	0.55	0.67	0.53	172
	20	3.34	1.86	13,297	4,590	7,566	5.60	7.69	2.34	1.79	1.60	1.33	0.54	0.59	0.51	172
	21	3.10	1.39	15,914	5,129	9,949	4.22	11.26	1.78	1.84	1.21	1.33	0.53	0.54	0.55	172
	22	2.69	1.10	16,064	5,626	10,133	4.17	10.60	1.41	1.86	1.09	1.32	0.54	0.55	0.54	170
	23	2.64	1.05	16,280	6,089	10,916	3.89	10.09	1.36	1.89	1.06	1.31	0.53	0.62	0.51	165
	24	2.64	1.02	16,745	6,533	10,452	3.82	10.07	1.18	1.91	1.04	1.31	0.53	0.63	0.49	163
	25	2.68	1.08	7,880	6,587	7,473	3.91	10.61	1.37	1.95	1.04	1.31	0.53	0.69	0.50	170
	26	3.25	1.41	7,097	6,607	7,430	4.03	11.14	1.62	1.99	1.15	1.31	0.47	0.70	0.53	168
	27	3.11	1.28	11,708	6,796	8,828	3.75	10.39	1.21	1.99	1.07	1.31	0.48	0.50	0.52	167
	28	3.20	1.24	12,741	7,008	9,719	4.02	10.35	1.15	1.96	1.06	1.31	0.48	0.56	0.50	158
	29	2.98	1.04	11,789	7,173	9,996	3.56	9.28	0.84	1.88	0.96	1.29	0.47	0.62	0.50	162
	30	3.06	1.07	13,887	7,397	11,590	3.15	9.01	0.94	1.74	0.95	1.25	0.40	0.66	0.49	155
	31	3.03	1.15	12,325	7,556	10,296	2.75	8.61	0.64	1.57	0.97	1.21	0.40	0.70	0.46	160

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

October 2004

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 15, 2004	None Detected	
California Aqueduct At Banks Pumping Plant	September 15, 2004	2,4-D	0.20
O'Niell Forebay Outlet Check 13	September 15, 2004	2,4-D	0.1
Delta Mendota Canal At McCabe Road	September 15, 2004	2,4-D	0.3
California Aqueduct Near Kettleman City (Check 21)	September 15, 2004	2,4-D	0.2
California Aqueduct At Near Highway 119 (Check 29)	September 15, 2004	2,4-D	0.1
California Aqueduct at Devil Canyon Headworks	September 15, 2004	2,4-D	0.1
California Aqueduct At Tehachapi Afterbay (Check 41)	September 15, 2004	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

October 2004

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	2,602,368	5,472	46,522	37,002	1,414,848	1,414,848	190,145	138
2	656,352	5,760	43,799	34,321	1,108,992	1,108,992	190,175	142
3	2,092,032	4,896	39,403	32,977	846,528	846,528	184,270	143
4	3,021,408	3,168	44,471	36,141	930,816	930,816	198,160	139
5	3,831,264	0	39,277	33,334	841,536	841,536	188,890	160
6	3,280,896	0	46,718	37,912	1,444,224	1,444,224	193,570	174
7	4,161,600	0	41,223	34,237	1,405,056	1,405,056	249,705	178
8	2,462,112	0	41,839	34,076	1,132,800	1,132,800	293,565	179
9	1,719,648	0	45,395	35,539	851,712	851,712	358,975	178
10	2,924,640	0	46,417	37,261	956,352	956,352	381,280	175
11	4,406,400	0	50,918	39,375	824,064	824,064	376,310	176
12	4,277,376	0	51,443	40,250	846,528	846,528	381,165	185
13	4,495,968	0	52,913	39,592	831,936	831,936	381,440	187
14	3,841,920	0	53,067	38,696	735,936	735,936	389,185	183
15	6,902,208	0	60,018	42,966	836,736	649,736	400,355	184
16	2,268,576	0	54,026	42,070	604,992	427,992	383,960	172
17	1,922,400	2,880	46,375	38,948	1,237,056	1,060,056	360,880	162
18	5,039,712	1,728	45,731	36,778	903,744	726,744	338,315	156
19	5,176,800	6,048	31,486	26,908	1,119,744	942,744	244,500	155
20	5,158,944	3,744	26,271	26,173	1,095,744	918,744	151,310	152
21	6,906,528	0	24,990	23,401	1,940,736	1,763,736	119,800	156
22	4,752,576	2,592	23,380	19,180	2,193,216	2,016,216	90,225	155
23	3,086,784	288	22,771	19,229	2,201,664	2,024,664	103,810	151
24	1,728,864	7,488	24,843	21,910	2,484,288	1,867,288	95,490	153
25	4,437,504	3,744	27,167	23,548	2,477,568	2,015,568	107,805	153
26	3,345,408	6,912	25,186	22,344	2,752,128	2,290,128	135,625	154
27	4,004,352	5,184	24,213	20,132	2,953,152	2,953,152	107,610	153
28	4,835,232	2,880	28,217	22,792	3,106,176	3,106,176	67,305	154
29	4,541,472	4,896	27,587	20,965	3,351,552	3,351,552	75,070	153
30	1,170,432	7,776	25,018	19,887	2,735,040	2,735,040	65,925	166
31	2,123,712	7,200	24,353	19,096	3,115,968	3,115,968	85,400	185
Total	111,175,488	82,656	1,185,037	957,040	49,280,832	46,136,832	6,890,220	5,051

Table 36. San Luis Field Division Energy Data

October 2004

(in kWh)

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,148,544	932,544	499,680	499,680	824,544	439,544
2	1,024,560	808,560	1,064,160	1,064,160	9,216	9,216
3	1,213,344	997,344	0	0	1,579,104	-34,896
4	809,280	593,280	0	0	390,240	5,240
5	964,224	748,224	0	0	19,296	19,296
6	1,065,600	849,600	821,376	821,376	296,352	2,352
7	860,256	644,256	0	0	302,976	8,976
8	953,136	737,136	1,108,800	1,108,800	345,312	2,312
9	1,172,160	956,160	0	0	687,456	344,456
10	1,346,832	1,130,832	1,488,384	1,488,384	1,769,472	833,472
11	777,312	561,312	730,080	730,080	9,792	9,792
12	681,120	465,120	0	0	84,672	84,672
13	991,584	775,584	328,320	328,320	725,184	-2,816
14	894,096	678,096	0	0	19,584	19,584
15	867,456	657,456	895,392	895,392	813,024	-12,976
16	1,143,504	934,504	1,068,768	1,068,768	532,800	-18,200
17	1,255,536	1,046,536	0	0	2,459,232	-36,768
18	748,080	539,080	991,584	991,584	209,664	1,664
19	599,472	390,472	669,600	669,600	922,176	-13,824
20	395,424	186,424	0	0	2,170,944	1,234,944
21	479,520	270,520	0	0	3,361,536	1,984,536
22	583,632	412,632	0	0	2,572,704	1,195,704
23	640,944	469,944	0	-1,491,000	2,107,872	730,872
24	693,360	621,360	0	0	4,576,896	1,002,896
25	631,872	558,872	0	0	1,455,552	423,552
26	552,096	479,096	0	0	1,797,408	518,408
27	305,568	232,568	0	0	4,201,920	2,329,920
28	478,512	478,512	0	0	3,618,432	1,416,432
29	478,944	478,944	0	0	3,133,152	1,756,152
30	440,352	440,352	0	0	3,676,320	2,299,320
31	730,368	730,368	0	0	5,857,632	2,032,632
Total	24,926,688	19,805,688	9,666,144	8,175,144	50,530,464	18,586,464

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

October 2004

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	20,414	53,984	83,400	79,210	80,340	1,297,728	1,525,032	3,402,432	12,450,960
2	25,272	67,640	95,090	90,810	93,380	1,512,000	1,716,048	3,852,576	14,186,880
3	18,902	51,096	94,195	87,540	92,625	1,457,568	1,728,792	3,830,400	14,068,080
4	18,636	48,600	76,065	71,985	75,100	1,039,536	1,272,384	2,775,456	10,283,760
5	23,580	62,760	90,820	83,200	85,385	1,205,784	1,366,200	3,031,776	10,980,720
6	27,230	72,688	93,570	88,800	90,755	1,349,928	1,479,528	3,282,048	11,819,520
7	27,660	74,128	88,555	84,185	87,130	1,308,888	1,435,392	3,208,032	11,882,160
8	20,936	56,072	69,645	65,795	68,535	1,281,312	1,412,856	3,153,600	11,640,240
9	20,586	54,032	65,305	61,665	65,200	1,499,400	1,703,160	3,809,664	13,813,200
10	22,882	62,768	95,690	91,030	95,250	1,823,256	2,049,264	4,623,264	17,294,400
11	20,590	54,152	72,205	64,120	69,875	1,238,832	1,447,272	3,237,408	11,707,200
12	21,796	57,272	50,585	48,540	52,290	1,002,600	1,076,040	2,373,984	8,896,320
13	18,064	46,000	71,990	68,290	70,540	1,315,296	1,460,520	3,273,120	11,843,280
14	20,464	53,024	81,685	78,605	80,550	1,260,216	1,421,064	3,137,760	11,516,400
15	17,130	42,984	86,765	82,100	84,345	1,300,896	1,416,168	3,138,048	11,368,080
16	9,116	23,504	82,280	77,900	79,990	1,458,864	1,640,664	3,663,648	13,524,480
17	9,634	24,392	87,800	82,090	87,305	1,793,952	2,113,848	4,724,640	17,409,600
18	9,232	23,064	58,400	55,120	59,390	1,153,512	1,289,016	2,891,232	10,609,200
19	9,294	23,504	65,425	61,145	64,710	926,784	1,045,296	2,319,264	8,268,480
20	8,136	20,968	53,630	49,960	54,375	794,592	972,864	2,139,840	7,837,200
21	9,784	26,304	65,965	62,030	66,060	1,118,952	1,207,368	2,699,424	9,747,360
22	13,058	34,928	68,005	64,465	66,780	907,776	1,087,056	2,408,832	8,818,560
23	8,886	22,920	64,330	61,125	64,300	1,196,856	1,300,824	2,867,328	10,565,280
24	5,664	14,328	64,845	59,095	65,490	1,383,120	1,612,656	3,586,464	13,473,360
25	10,264	27,904	61,330	57,560	60,450	940,752	1,123,776	2,456,640	8,805,600
26	9,398	24,096	60,780	58,920	61,125	911,952	1,036,584	2,322,720	8,336,880
27	6,058	15,960	52,870	50,270	52,965	672,768	800,136	1,809,504	6,826,320
28	8,738	22,144	68,825	65,425	69,180	991,944	1,155,024	2,617,056	9,722,160
29	9,364	24,216	64,085	59,795	63,555	875,664	1,070,352	2,390,400	8,627,760
30	5,412	14,688	53,260	50,485	53,960	923,616	1,055,232	2,373,120	8,755,920
31	6,466	17,624	66,545	60,730	66,745	1,301,328	1,553,616	3,532,608	12,875,040
Total	462,646	1,217,744	2,253,940	2,121,990	2,227,680	37,245,672	42,574,032	94,932,288	347,954,400

Table 38. Southern Field Division Energy Data

October 2004

(in kWh)

Date	West Branch			East Branch						
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Cherry Valley Pumping Plant	Crafton Hills Pumping Plant	Green Spot Pumping Plant
1	619,080	1,344,744	1,920,000	356,524	2,201,772	3,668,832	238,854	494	16,449	15,422
2	608,552	1,111,752	1,920,000	408,268	2,083,920	3,430,752	247,989	472	569	8,054
3	720,832	1,238,112	1,920,000	382,900	2,392,500	3,897,888	286,629	482	559	8,347
4	572,936	1,236,960	1,920,000	278,712	1,422,948	3,948,768	174,510	878	14,881	15,356
5	470,008	1,204,056	1,920,000	340,620	1,779,072	3,643,200	205,779	495	14,308	14,701
6	513,968	1,246,968	1,920,000	358,092	1,995,648	3,933,312	239,127	1,248	15,105	15,412
7	476,056	1,134,288	1,920,000	359,940	2,081,016	3,857,952	248,010	1,323	14,034	13,910
8	474,264	1,117,800	1,920,000	342,860	2,278,488	3,796,704	266,952	583	15,379	15,480
9	516,376	1,252,944	1,920,000	415,548	2,544,636	3,939,360	287,721	498	608	7,747
10	851,536	1,269,432	1,920,000	418,460	2,747,388	3,550,080	304,164	435	547	7,925
11	394,408	1,275,048	1,920,000	356,524	2,345,556	4,073,376	281,106	1,117	14,324	15,015
12	515,368	1,363,680	1,920,000	207,116	1,194,048	3,936,768	132,027	763	9,593	10,866
13	512,008	1,251,864	1,920,000	377,272	2,057,340	3,568,800	274,932	932	11,052	10,938
14	474,768	1,365,120	1,920,000	371,868	2,051,328	3,836,256	209,874	1,201	11,442	10,929
15	462,672	668,952	1,920,000	338,436	2,044,068	3,749,856	254,415	488	11,266	10,857
16	542,976	1,285,992	1,920,000	416,248	2,448,528	3,924,480	272,706	423	9,328	9,202
17	850,080	1,227,240	1,920,000	427,000	2,777,712	3,730,272	300,216	423	3,523	4,452
18	380,688	956,088	1,440,000	339,892	2,031,936	3,927,168	245,826	939	8,295	10,890
19	383,768	1,015,632	1,440,000	225,764	1,351,896	3,393,792	149,688	1,026	10,296	10,954
20	379,624	892,296	1,440,000	213,556	1,363,500	3,096,576	163,905	511	8,692	9,517
21	452,088	952,704	1,440,000	288,904	1,881,732	2,726,304	211,365	500	498	2,780
22	363,608	1,140,120	1,440,000	260,904	1,658,916	3,107,328	193,347	468	5,165	6,495
23	404,264	952,056	1,440,000	336,056	2,018,076	2,737,248	232,176	412	481	619
24	802,480	713,664	1,440,000	302,260	1,774,524	2,769,120	192,213	409	485	597
25	365,624	1,034,568	1,440,000	265,496	1,606,872	3,121,344	187,215	805	501	5,984
26	362,320	1,044,432	1,440,000	243,208	1,351,284	2,967,744	110,439	914	2,224	4,153
27	322,560	1,119,744	1,440,000	192,416	1,248,984	3,513,024	165,354	523	508	997
28	631,848	909,000	1,440,000	210,728	1,278,600	3,214,176	131,565	530	478	850
29	425,320	1,005,336	1,440,000	269,752	1,440,792	3,357,216	168,693	500	476	5,161
30	469,056	956,160	1,440,000	248,276	1,385,244	2,822,496	150,738	433	469	1,268
31	575,736	1,408,536	1,500,000	397,180	2,275,284	2,731,488	246,960	438	471	1,240
Total	15,319,136	33,286,752	51,360,000	9,553,600	56,838,324	105,240,192	6,527,535	20,659	202,008	256,117